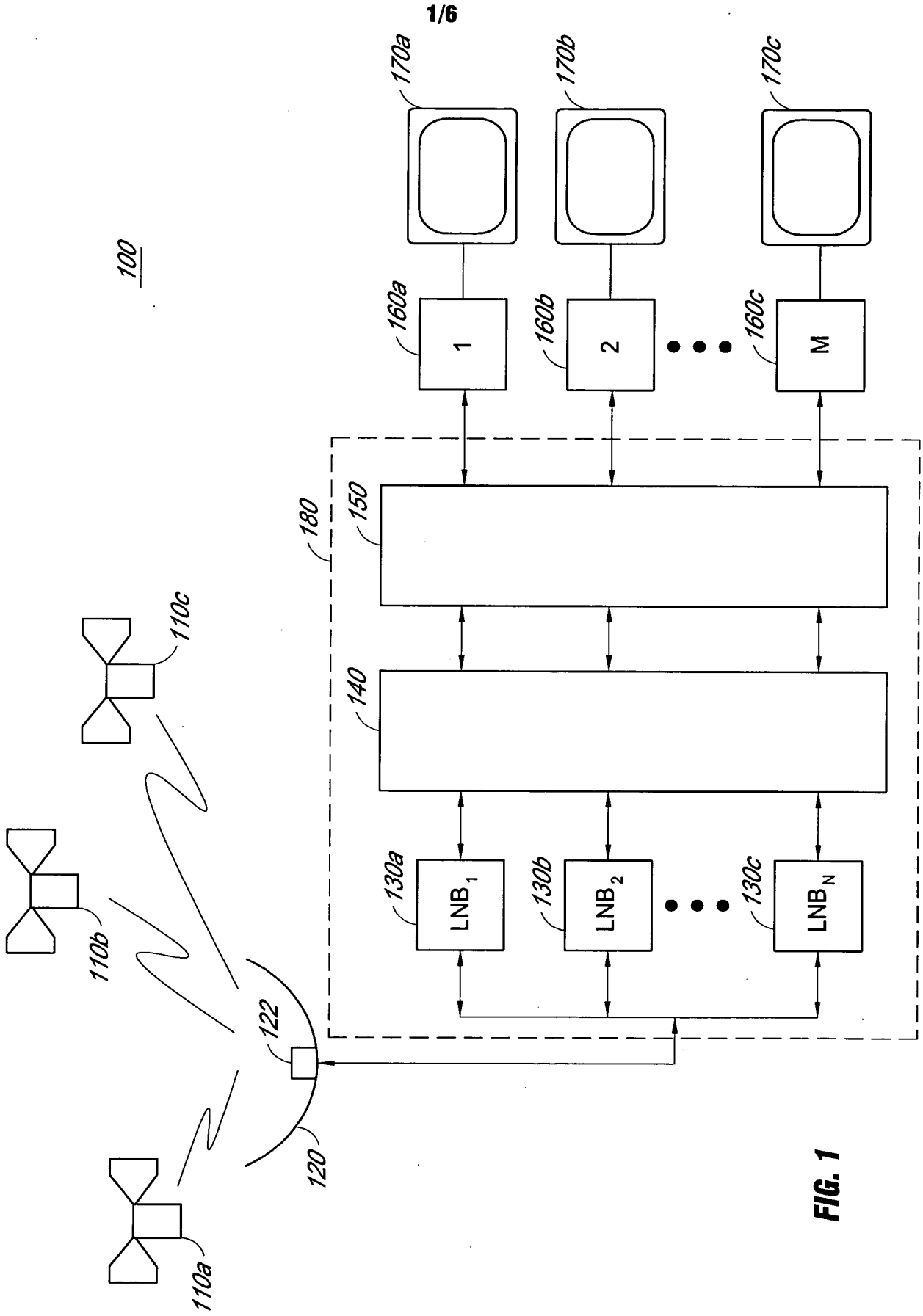
100
170a
170b
170c
160a
160b
160c
1
2
M
180
150
140
130a
130b
130c
LNB1
LNB2
LNBN
110c
110b
110a
122
120

FIG. 1

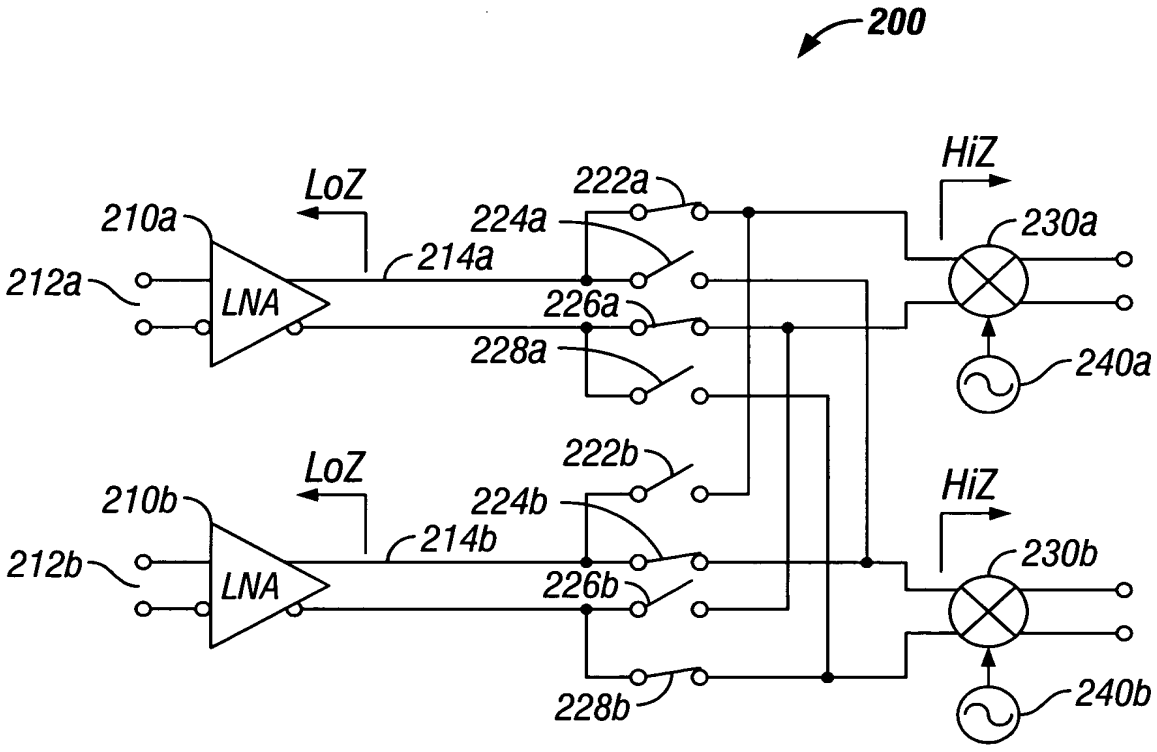
200
LoZ
HiZ
210a
212a
LNA
214a
222a
224a
226a
228a
230a
240a
LoZ
HiZ
210b
212b
LNA
214b
222b
224b
226b
228b
230b
240b

FIG. 2

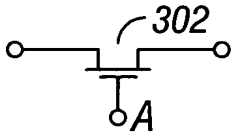

FIG. 3A

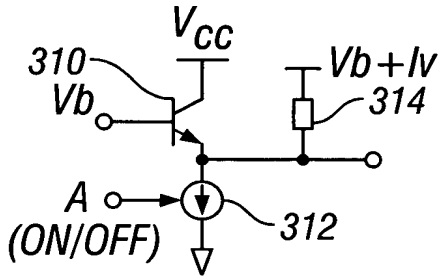

FIG. 3B

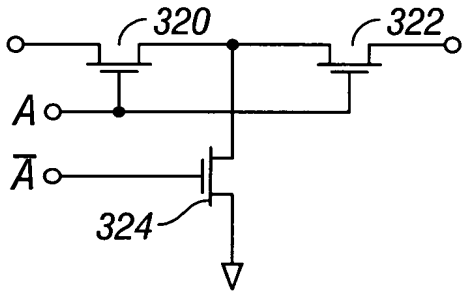

FIG. 3C

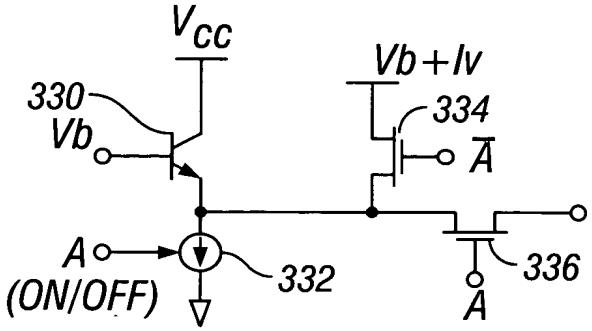

FIG. 3D

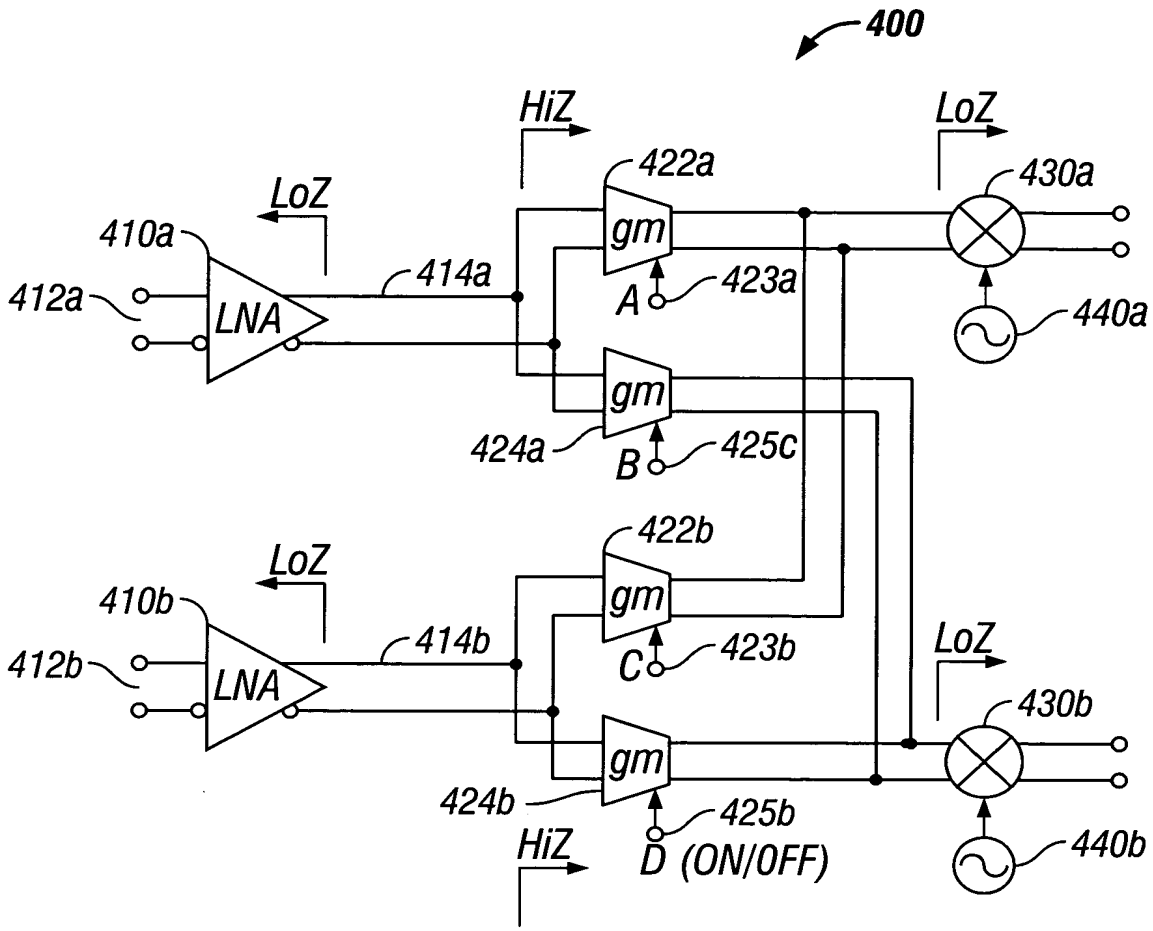
400
HiZ
LoZ
422a
430a
LoZ
410a
412a
LNA
414a
gm
423a
A
440a
gm
424a
B
425c
422b
LoZ
410b
412b
LNA
414b
gm
C
423b
LoZ
430b
gm
424b
425b
HiZ
D (ON/OFF)
440b

FIG. 4

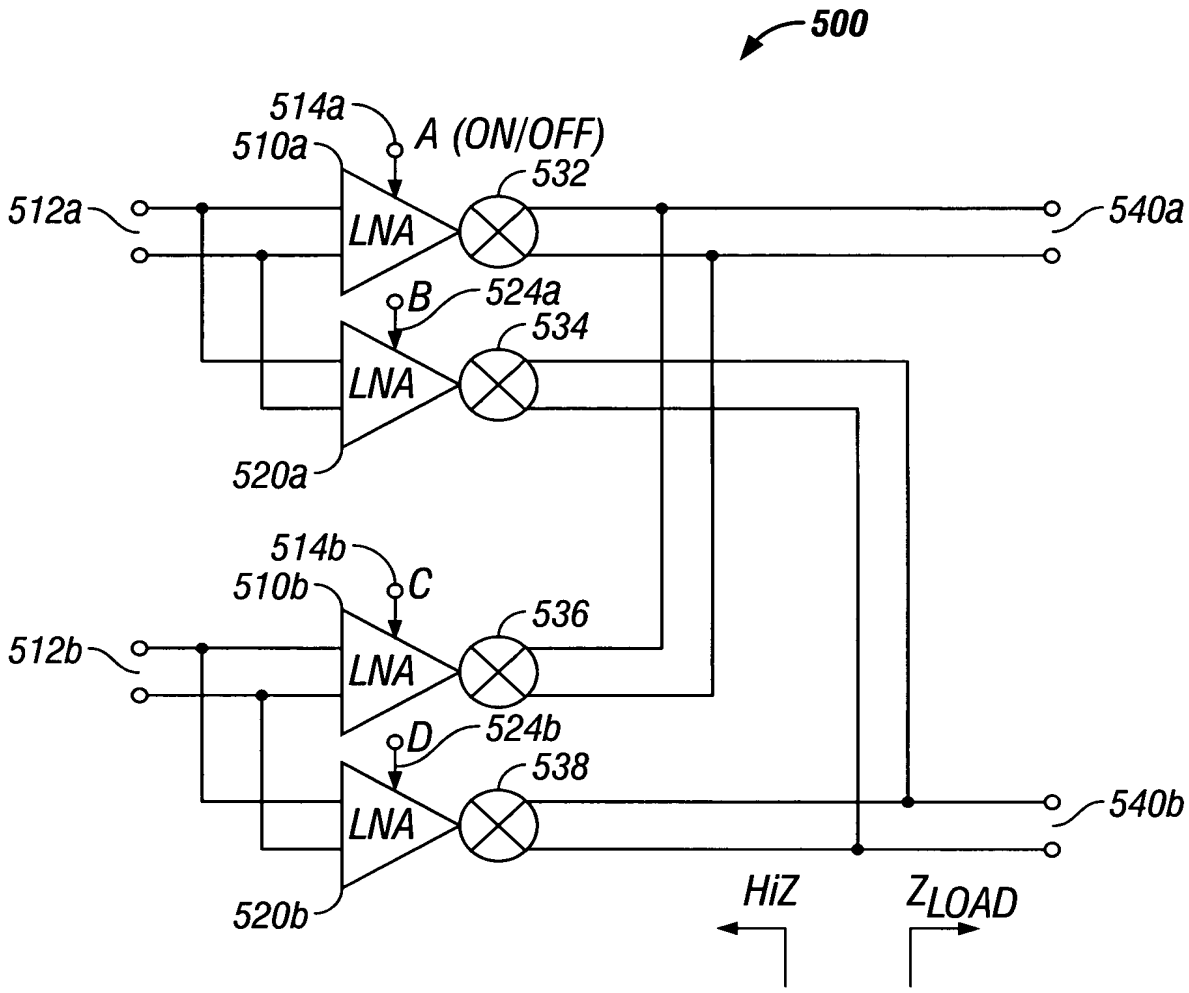
500
514a
A (ON/OFF)
510a
532
512a
LNA
540a
B
524a
534
LNA
520a
514b
C
510b
536
512b
LNA
D
524b
538
LNA
540b
520b
HiZ
Z_{LOAD}

FIG. 5

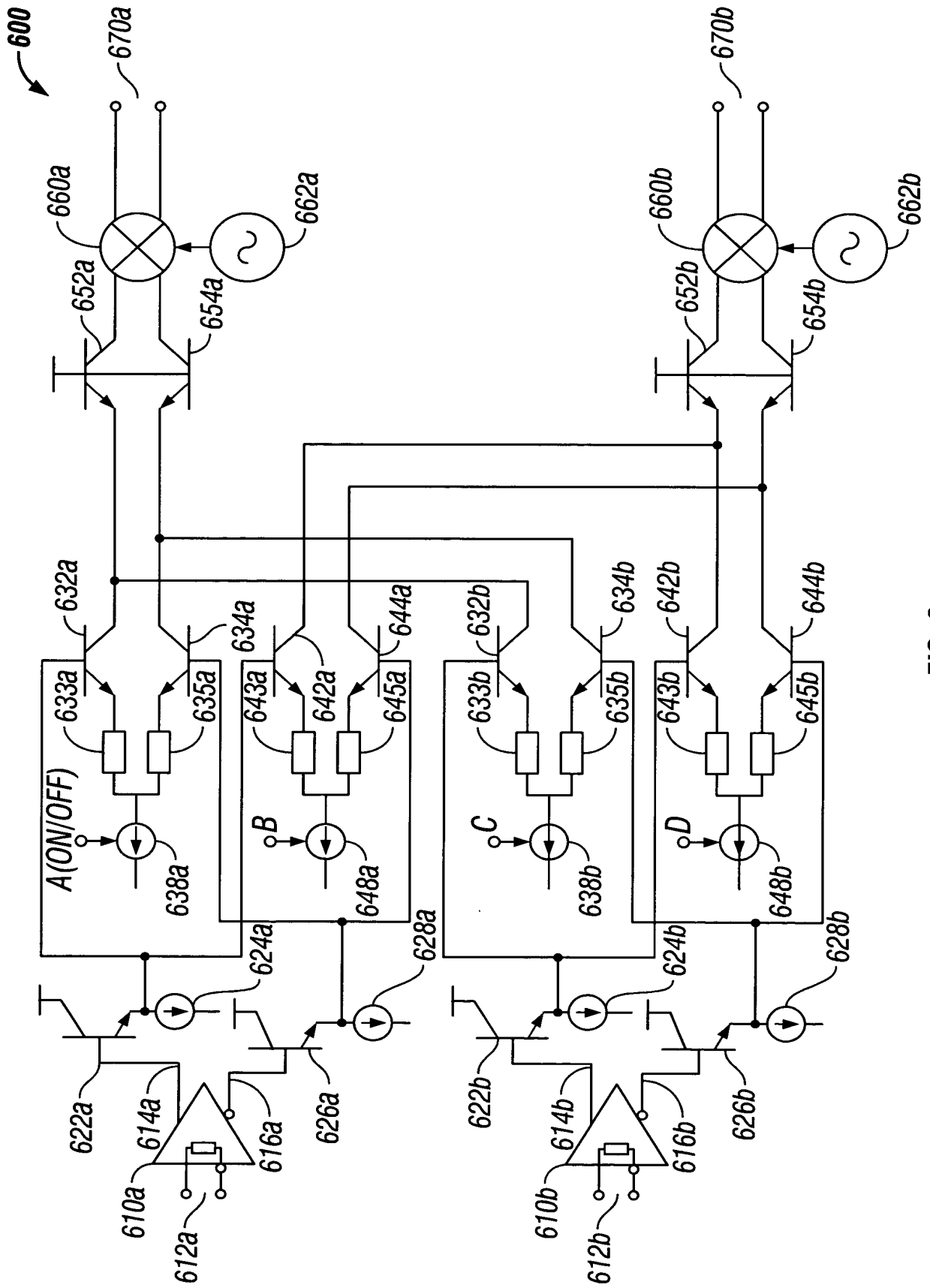
600
670a
670b
660a
660b
662a
662b
652a
652b
654a
654b
632a
632b
634a
634b
642a
642b
644a
644b
633a
633b
635a
635b
643a
643b
645a
645b
A(ON/OFF)
B
C
D
638a
638b
648a
648b
624a
624b
628a
628b
622a
622b
614a
614b
616a
616b
626a
626b
610a
610b
612a
612b

FIG. 6